

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 02059029  
PUBLICATION DATE : 28-02-90

APPLICATION DATE : 25-08-88  
APPLICATION NUMBER : 63209569

APPLICANT : TOSOH CORP;

INVENTOR : IGARASHI KOJI;

INT.CL. : B01D 69/02 B01D 71/78 C08J 9/36 // B01D 71/68 C08L 81:06

TITLE : POROUS MEMBRANE HAVING HYDROPHILIC SURFACE AND PREPARATION THEREOF

ABSTRACT : PURPOSE: To obtain a porous membrane having a hydrophilic surface by irradiating a porous membrane made of polysulfone in a polymerizable monomer solution at room temp. under atmospheric pressure.

CONSTITUTION: A porous membrane made of polysulfone is washed with pure water and subsequently immersed in a solution containing about 0.1-50wt.% of a polymerizable monomer such as acrylamide and irradiated with ultraviolet rays having proper intensity at room temp. under atmospheric pressure under a proper irradiation distance/proper irradiation time condition to perform graft polymerization. The obtained polymer porous membrane having a hydrophilic surface is washed with pure water. By this method, a membrane wherein the rapid lowering of a filtering speed due to the adsorption of protein is solved while the chemical resistance and physical strength of the porous membrane composed of a hydrophobic substrate are held and a high filtering speed is imparted is obtained. Therefore, a filtering time can be shortened to a large extent.

COPYRIGHT: (C)1990,JPO&Japio